



US Army Corps
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Engineer Research and
Development Center

Development of Guidance for Acoustic Doppler Current Profilers

Description The development of guidance for the operation when obtaining discharge and velocity data with Acoustic Doppler Current Profilers (ADCP's).

Issue ADCP's are currently used to determine discharge and for point velocity data. Further research is required to determine if ADCP's should be operated in a different manner based on how the ambient conditions impact data quality and on the type of information being obtained. Development of Standards for Discharge is the first task the Corps. The USGS has done extensive research on how an ADCP should be used to determine discharge. They are currently beginning to investigate ways to determine the quality of this discharge data. The second task is the Development of Standards for the use of ADCP's to provide velocity data. This area is currently void of any research efforts.

Users Corps of Engineers Engineering and Operations Divisions

Products EM for Obtaining Discharge and Velocity information from ADCP's

Benefits Improve rating curves, and environmental data; improved results from numerical models

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Partners ERDC; USGS and Corps Districts

